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Traceability of Funding Lifecycle

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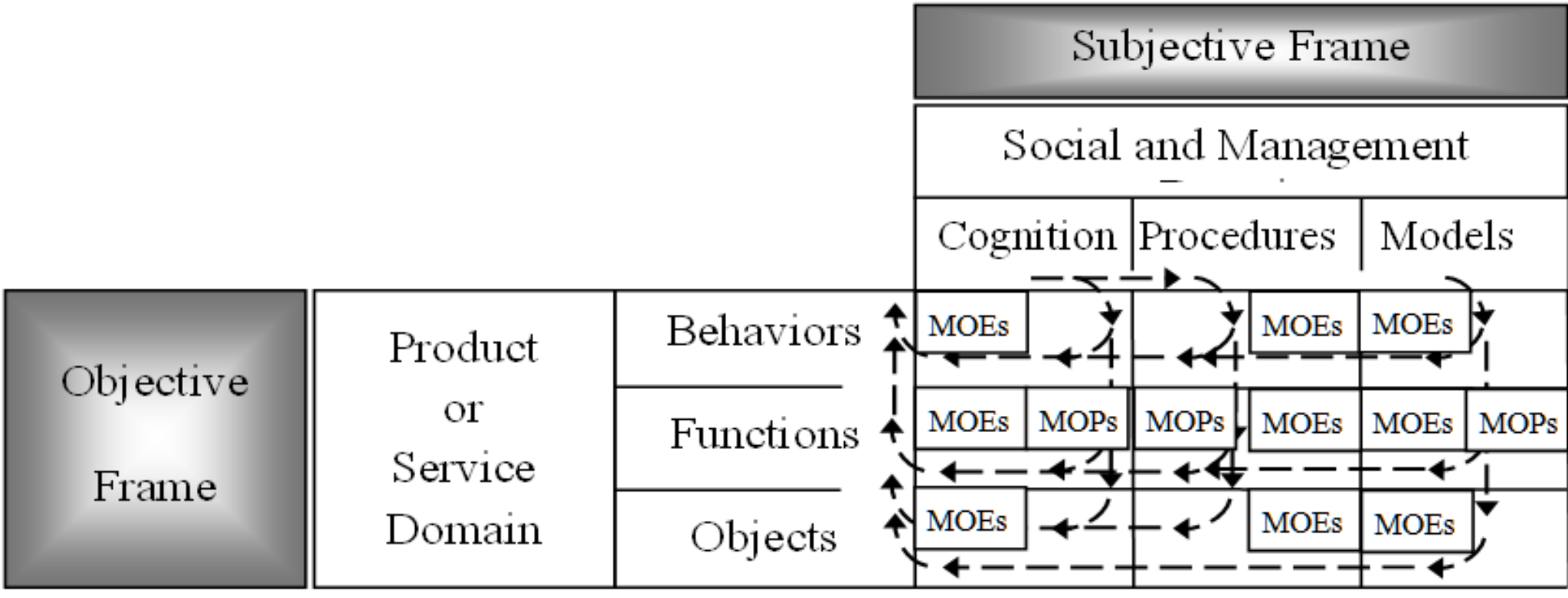
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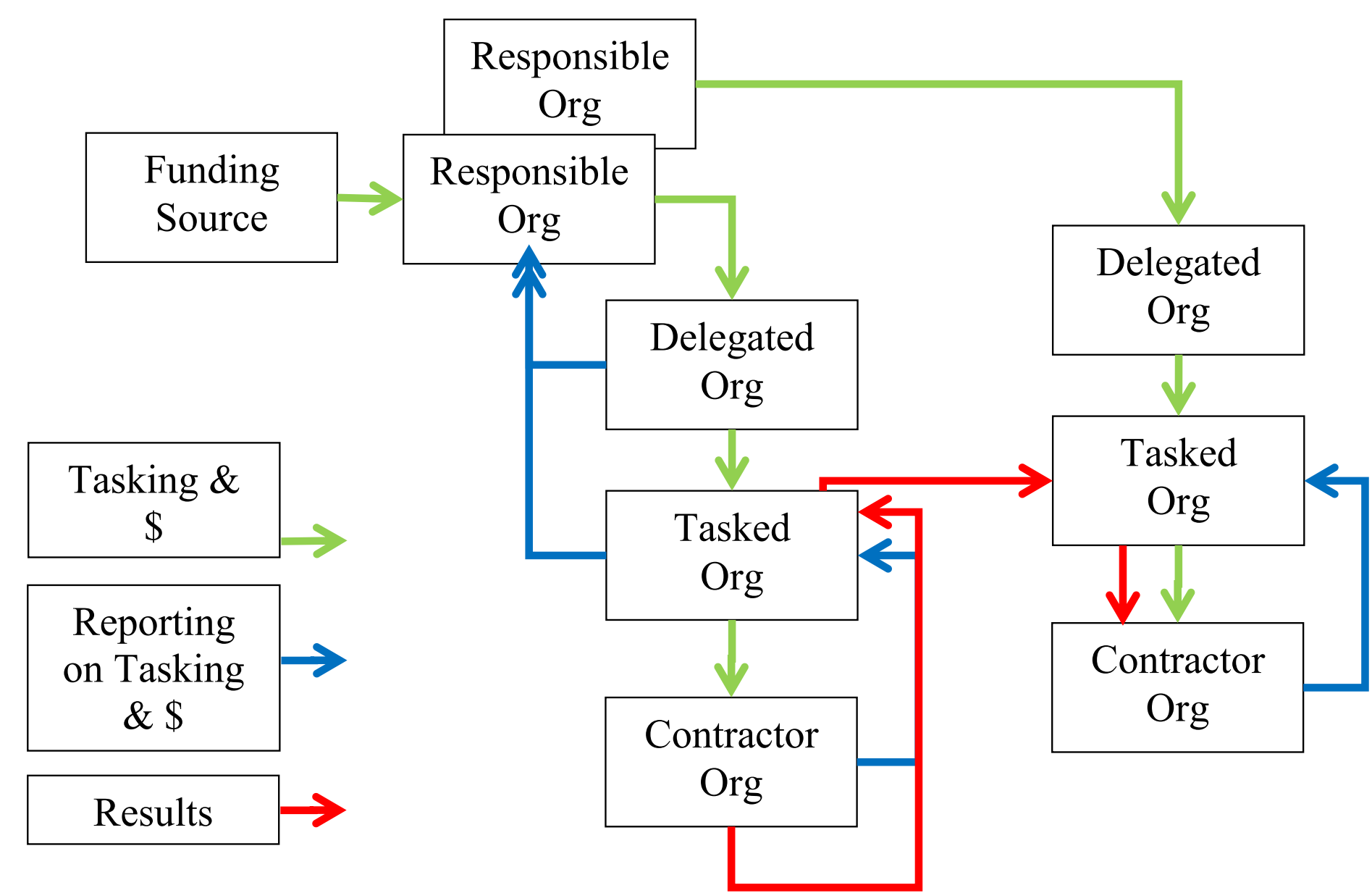
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Abstract

- Mathematically modeled flow of money to fund tasks, meet schedules, and produce results
- Approach based on principles of systems engineering to develop standardized, quantified set of measures of effectiveness (MOEs)
- Developed operative theory for traceability and derived 10 propositions to guide implementation
- Research avers standard MOEs for stakeholders



Measures of Effectiveness within Integrative Framework



Complete Transparency, Effective Traceability, and Full Compliance

Tasking, dates of performance, and funding (TDF / **green**) and are sent from organization to organization to accomplish the work. Reporting on TDF / **blue** is sent to the appropriate organizations (typically the organization that sent the TDF / **green**). Distribution of the results of the TDF / **green** is coordinated with other organizations with a Report / **red** that requires awareness, perspective, support, stimulus, or corroboration.

- For every TDF / **green** there is at least one Report / **red**. For every Report / **red** there is an access list.
- The access list is controlled by the organization that generated the TDF.

Five Steps to Implementing Traceability for Lifecycle Funding

1. Build foundation for sound lifecycle traceability in a theory that is validated with a formal model. **COMPLETED 2016**
2. Architect a preliminary model that encapsulates the necessary and sufficient transparency, traceability, and compliance to satisfy the purposes and intent to monitor and predict effectiveness.
3. Establish procedures to implement a funding lifecycle effort built on a manual process to identify problems and encumbrances.
4. Release a computerized traceability system.
5. Mold individual and organizational behaviors into an operational model that is efficient in carrying out tasks and effective in delivering on-time, on-budget, on-time, on performance products and services.